ZYAT'KOVA, L. K. Canc Geol-Mineral Sci — (diss) "The use of geologo-)
geomor phological methods for explaining the local structures
of the central area of the desern Siberian lowland," Novosibirsk,
1960, 17 pp, 150 cop (Tomsk State U im V. V. Kuybyshev) (KL, 43-60, 117)

ZYAT'KOVA, L.K.

Notice of the West Siberian Plain. Gool. i goofiz. no. 9:12-20 '60. (MIRA 14:2)

1. Institut Seologii i goofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(West Siberian Plain-Geology, Structural)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 CIA-RDP86-00513R002065720016-2" PETROV, Ye.N.; ZYAT'KOVA, L.K.

Methods and results of geological and geomorphological investigations carried out in order to study structures in the central areas of the West Siberian Plain. Trudy SMICCIES 9:87-96 '60. (MicA 14:7)

(West Siberian Plain—Geology, Structural)

ZYAT'KOVA, Luiza Konstantinovna; NIKOLAYEV, V.A., kand.geol.-mineral.nauk, otv.red.; ALEKSANDROVSKIY, B.M., red.; LOKSHINA, O.A., tekhn.red.

[Geological and geomorphological methods of detecting local structures, the central part of the West Siberian Plain.] Geologo-geomorfologicheskie metody vyiavleniia lekal'nykh struktur; tsentral'naia chast' Zapadne-Sibirskoi nizmennesti. Nevosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR, 1961. 76 p. (Akademiia nauk SSSR, Sibirskoe otdelenie. Institut geologii i geofiziki. Trudy, no. 14).

(MIRA 16:9)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2"
ZYAT'KOVA, Loke, PETROV, Ye.N.

Analyzing longitudinal river profiles to find structures in the West Siberian Lowland. Izv.AN/SSSR.Ser.geog. no.33:89-90 My-Je '61.

(West Siberian Lowland—Rivers)

(MIRA 14:5)

Geology and geomorphology of the Ases uplifts region (Vakh Basin). Trudy SNIIGGIMS no.7:101-107 '61. (MIRA 16:7)

(Vakh Valley-Geology)

The Fifth Flenum of the Geomerphological Commission. Izv. AN SSSR. Ser. geog. nc.4:136-138 J1-Ag '65. (MIRA 18:3)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2

ZIL'BER, M.K. (Chelyabinsk); ZYAT'KOVA, L.R. (Chelyabinsk)

Composition of the gaseous phase of blast furnace tap cinder.

Izv. AN SSSR.Otd.tekh.nauk. Met. i topl. no.5:66-68 S-0 '62.

(MIRA 15:10)

KARPOV, Boris Dmitriyevich; ZYATYUSHKOV, A.I., red.; LEBEDEVA, G.T., tekhn. red.

[Work hygiene in industrial painting] Gigiena truda pri maliarnykh rabotakh. Leningrad, Medgiz, 1963. 38 p. (MIRA 16:11)

(Painting, Industrial -- Safety measures)

EURLOVA, Lidiya Yokovlevna; LEBEDEVA, Aleksandra Filippovna; TARASOVA, Anna Vladimirovna; ZYATYUSHKOV, A.I., red.; EUGROVA, T.I., tekhn.red.

[Work hygiene in plants of the textile industry; cottonspinning and weaving manufacture] Gigiena truda na predpriiatiiakh tekstil'noi promyshlennosti: v bumagopriadil'nom i tkatskom proizvodstve. Leningrad, Medgiz, 1963. 49 p. (MIRA 16:12)

(COTTON MANUFACTURE--HYGIENIC ASPECTS)

AERAMOVICH, Grigoriy Borisovich, prof.; ZYATYUSHKOV, A.I., red.

[For parents about epileptic children] Roditeliam o detiakh, boleiushchikh epilepsiei. Izd.2. Leningrad, Izd-vo "Meditsina," 1964. 37 p. (MIRA 17:5)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
SHAGOVA, Yekaterina Mikhaylovna;
Z.V., tekhn. red.

CIA-RDP86-00513R002065720016-2
ZYATYUSHKOV, A.I., red.; LEBEDEVA,

[Guard children's eyesight; eye injuries and their prevention]
Beregite zrenie detei; povrezhdeniia glaz i ikh preduprezhdenie. Leningrad, Medgiz, 1962. 22 p. (MIRA 15:8)
(EYE--WOUNDS AND INJURIES) (EYE--PROTECTION)

ROZENFEL'D, Aleksandr Semenovich; ZYATYUSHKOV, A.I. red.; LEBEDEVA, G.T., tekhn. red.

[Water and health; hygiene of water supply] Voda i zdorov'e; gigiena vodosnabzheniia. Leningrad, Medgiz, 1963. 29 p.
(MIRA 16:10)

(WATER SUPPLY-HYGIENIC ASPECTS)

TONKONOGIY, Iosif Moiseyevich; ZYATYUSHKOV, A.I., red.; BUCROVA, T.I., tekhn. red.

[Speech disorders, their prevention and treatment] Rechevye rasstroistva, ikh preduprezhdenie i lechenie. Leningrad, Medgiz, 1963. 34 p. (MIRA 17:3)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2

SHAFOVAL, Aleksey Nikitovich; ZYATYUSHKOV, A.I., red.; EUGROVA,

T.I., tekhn. red.

[Tick-borne encephalitis; prevention] Kleshchevoi entsefalit; profilaktika. Leningrad, Medgiz, 1963. 56 p.

(MIRA 17:3)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 CIA-RDP86-00513R002065720016-2"

RETNEV, Vladimir Mikhaylovich; ZYATYUSHKOV, A.I., red.; ONOSHKO, N.G., tekhn. red.

[Work hygiene in concrete production] Gigiena truda pri izgotovlenii betona. Leningrad, Medgiz, 1963. 99 p.

(MIRA 16:9)

(CONCRETE PLANTS—SAFETY MEASURES)

SOV/177-58-4-22/32

AUTHORS: Zyatyushkov, A.I., Colonel of the Medical Corps, Candidate of Medical Sciences, and Tsukerman, B.G.

TITLE: The Accommodations and Sick Rate of Submarine Crews

(Usloviya obitayemosti i zabolevayemosti lichnogo sostava na podvodnykh lodkakh) According to Data From Foreign Publications (Po dannym inostrannoy pechati)

PERIODICAL: Voyenno-meditsinskiy zhurnal, 1958, Nr 4, pp 74-80 (USSR)

ABSTRACT: The article is founded on data from American, German and

Italian literature. There is 1 table.

Card 1/1

THOUSE N

ZYATYUSHKOV, Alfey Ivanovich; DEPBO, A.G., red.

[Reduction of pulmonary gas volumes to normal conditions and calculations of some proper values; principles and tables] Privedenie legochnykh obmemov gazov k normal'nym usloviiam i raschety nekotorykh dolzhrykh velichin; obosnovanie i tablitsy. Leningrad, Meditsina, 1965. 137 p. (MIRA 18:9)

*APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
PIENHANOV, A.F.; PODVAL'NYI, S.I.; ZYAZHY, A.T.

Removing copper from the cobalt oxide production cycle. TSvet.
met. 32 no.2:49-52 F '59.
(Gobalt metallurgy) (Copper)

AUTHOR: Zyazev, A.D.

136-2-14/22

TITLE:

Simplified Method of Protecting Plant from Corrosive Solution and Pulps in Cobalt Production. (Uproshchennyy sposob zashchity apparatury ot agressivnykh rastvorov i pul'p kobaltovogo proizvodstva)

PERIODICAL: Tsvetnyye Metally, 1957, No. 2, pp. 77-78 (USSR)

ABSTRACT: The disadvantages (slowness, complexity, expense, etc.)
of the method used, e.g. at the Ufaleyskiy Nickel Works, for
protecting plant metalwork from the corrosive action of material
being processed to obtain cobalt are outlined. A method is
proposed by N.V. Aleshintsev based on the use of type 500-600
Portland cement with bricks and plates. Examples given of
applications to different shapes of units include pipe connections, Pachuca tanks, collectors, cisterns for transporting
hypochlorite and suction filters. Per unit of protected area
this method cost about about a tenth compared with the method
described by K.A. Polyakov in "Non-Metallic Chemically Stable

1/1 Materials", pp. 80-86. It is recommended for wide use not only
in cobalt production. There are 6 figures.

AVAILABLE: Library of Congress

PIMENOV, L.I.; ZYAZEV, A.D.

Electric melting reduction of converter slags from nickel production. TSvet. met. 38 no.1:3,-36 Ja '65 (MIRA 18:2)

AUTHORS:

Zyazev, A.D. Plekhanov, A.F., Podval'nyy, S.I.,

TITIE:

Elimination of Copper from the Cobalt-Oxide Production Cycle (Vyvod medi iz tsikla pri proizvodstve okisi

PERIODICAL: Tsvetnyye Metally, 1959, Nr 2, pp 49-52 (USSR)

ABSTRACT:

The existing method at the Ufaleyskiy Nikelevyy Zavod (Ufaley Nickel Works) for removal of copper from cobalt solutions is to precipitate with soda ash. This gives solutions is to precipitate with some ash. This gives a copper cake with 0.3 to 0.5% cobalt which has to be reprocessed, leading to deleterious accumulation of copper in the first stage of cobalt-oxide production. The work described had the object of exploring the possibilities of using sodium hyposulphate for the precipitation, giving a copper cake which could be eliminated from the production cycle. Laboratory experiments showed (Fig 1) that 300% (or 7.5 kg per kg experiments showed (Fig 1) that 300% (or 7.5 kg per kg copper) of the theoretical amount of hyposulphate was necessary to precipitate all the copper independently of acidity (0.04 to 0.05% Co in the precipitate), that the best temperature for precipitation was 80 to 9000

Card 1/3

Elimination of Copper from the Cobalt-Oxide Production Cycle

the best hyposulphate concentration 10 to 20% (Fig 2) and duration 12 to 15 minutes (Fig 3). On the basis of these satisfactory results production trials on a mechanically-stirred vessel of 4.2 m3 caracity were in the other the solutions contained iron. The results (table) were substantially the same in both series but the duration of the subsequent operation of cobalt free solutions. The consumption of hyposulphate could interval between successive additions to 30 minutes and to make further treatment unnecessary. The yield of authors conclude that the possibility of copper

Card 2/3

"APPROVED FOR REIDSE: Thereday, September 26, 2002 CIA-RDP86-00513R002065720016-2"

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2"

POSITION The Cobalt-Oxide SOV/136-59-2-11/24 established. There are 3 figures and 1 table.

Card 3/3

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 CIA-RDP86-00513R002065720016-2" RUDNEV, G.P.; TKACHEV, P.G.; ZYAZEV, A.K.; LATSINIK, G. Ye.; SHCHERBAK, Yu.F.

Evaluation of some biochemical indices in epidemic hepatitis. Kaz. med. zhur. no.5:37-40 S-0'63 (MIRA 16:12)

1. Kafedra infektsionnykh bolezney (zav. - deystveitel'nyy chlen AMN SSSR prof. G.P. Rudney) TSentral'nogo instituta usovershenstvovaniya vrachey.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 CIA-RDP86-00513R00206720016-2 CIA-RDP86-00512-2 CIA-RDP86-00512-2 CIA-RDP86-00512-2 CIA-RDP86-00512-2 CIA-RDP86-00512-2 CIA-RDP86-0051

Using the system of closed circuits in organizing interurban freight haulage. Avt. transp. 38 no.9:11-14 S '60. (MIRA 13:9)

(Transportation, Automotive)

ZYAZEV, V.

Interurban trucking and vehicles used for it. Avt. transp. 37 nc.10: 23-26 0 '59. (MIRA 13:2)

1. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta. (Transportation, Automotive)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
ZZYAZEV, V.; LIKHACHEV, I.

Dirgot centralized automotive transportation of autonomotive articles (MIRA 1814)

 "APPROVED FOR RELEASE: Thursday, September 26, 2002
 CIA-RDP86-00513R002065720016-2

 APPROVED FOR RELEASE: Thursday, September 26, 2002
 CIA-RDP86-00513R002065720016-2

BILIBINA, N., kandidat ekonomicheskikh nauk; ZYAZEV, V., inzhener; SEREGIN, V., inzhener.

The efficient organization of centralized hauling in the region of Ivanovo Province. Avt.transp.33 no.10:5-7 0 55. (MLRA 9:1) (Ivanovo Province--Transportation, Automotive)

ZYAZEV. V., inshener; SHUSTOV, A., inshener.

Intercity automotive transportation in Poland. Avt.transp. 35 no.3:39 Mr '57. (MLRA 10:5) (Poland—Transportation, Automotive)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
TASIN, 8: 1718-1.

Organizing contralized intercity freight haulage by means of public automotive transportation. Avt. transp. 36 no. 6:4-9 Je '58.

(MTRA 11:7)

(Transportation, Automotive)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2"
ANDRIYEVSKIY, M.; ZYAZEV, V.

Efficient sugar teet transportation. Avt.transp. 40 no.4:15-16
Ap '62. (MIRA 15:4)

ZYAZEV, V.; NAKASHIDZE, D.

New method for sugar-beet transportation. Avt. transp. 41 no.5:10-11 My '63. (MIRA 16:10)

(Sugar beets-Transportation)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2

ZYAZEV, V.

Centralized agricultural freight transportation. Avt.transp. 42 no. 4:15-17 Ap '64. (MIRA 17:5)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
CIA-RDP86-00513R002065720016-2
CIA-RDP86-00513R002065720016-2
CIA-RDP86-00513R002065720016-2

Develop and improve intercity freight haulage by means of small shipments. Avt. transp. 35 no.5:10-13 My '57. (MIRA 10:6)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZYAZEV, V.A.

Organization of traffic on interurban routes. Trudy MIEI ro. 20:
115-.125 '63.

(MIRA 17:3)

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2

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CIA-

ZYAZEV, V.L. (Sverdlovsk); FURASHEVA, M.W. (Sverdlovsk)

Cases in copper ingots and their determination. Izv. AN SSSR Met. 1 gor. delo no.2:132-136 Er-45*64 (MIRA 17:8)

ZYAZEV, V.L. (Sverdlovsk); ZAOREBEL'NYY, B.N. (Sverdlovsk); TANUTROV, I.H. (Sverdlovsk)

Gas content of wire bar copper. Izv. AN SSSR. Otd., tekh. nauk. Mot. i gor. delo no.1:80-86 Ja-F 163. (MIRA 16:3) (Copper—Analysis) (Gases in metals)

8/137/62/000/008/011/065 A006/A101

AUTHORS:

Ivanovskiy, L. Ye., Ilyushchenko, N. G., Plekhanov, A. F., Zyazev, V. L.

TITLE:

Separating rare-earth metals by fused salt electrolysis

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 8, 1962, 27, abstract 80188 ("Tr. In-ta elektrokhimii, Ural'skiy fil. AN SSSR", 1961, no. 2, 131 -

TEXT: Separation of rare-earth metals was investigated in fused bath electrolysis containing a mixture of rare-earth chlorides. It was found that at all the D_c (0.25 - 1.5 amp/cm²) and temperatures (850 - 870, 560 - 700°C) investigated, alloys are obtained which are considerably impoverished of La (3 - 5 weight %) and enriched with Ce (up to 80%). The total Pr and Nd amount remains practically constant. The nature of cathodic deposits varies noticeably with temperature. Their salt content varies from 75 to 80% at 560°C and from 30 to 40% at 700°C. There are 11 references.

[Abstracter's note: Complete translation]

G. Svodtseva

Card 1/1

ZYAZEV, V.L., Cand Tech Sci — (diss) "Physico-chemical properties of the simple vanadium draces."

Sverdlovsk, 1958, 12 pp. (Min of Higher Education USSR. Urali Polytech Inst im S.M. Kirov) 150 copies (KL, 32-58, 108)

27213

S/081/61/000/014/010/030

52300

AUTHORS:

عاب الوالي الله

Ivanovskiy, L. Ye., Ilyushchenko, N. G., Zyazev, V. L.,

Plekhanov, A. F.

TITLE:

Oxychlorides of rare earths of lowest valency

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 14, 1961, 97, abstract 14B15. (Tr. In-ta elektrokhimii. Ural'skiy fil. AN SSSR, no. 1, 1960, 55 - 60)

TEXT: The authors studied the reaction of a mixture of chlorides of rare earths with mishmetal in the presence of 02. They separated a mixture of oxychlorides of lowest valency, M20Cl2 (M = La, Ce, Pr, Nd). They studied some properties of these compounds. In the electrolysis of chloride baths where the possibility of a contact of 0, of air and moisture with the melt was not excluded, it was shown that the oxidation of the salts apparently yielded oxy cations M20Cl2+ which were discharged on the cathode and, thus, were transformed to the oxychlorides of lowest valency, MoClo. Card 1/2

Oxychlorides of rare earths of lowest ...

27213 \$/081/61/000/014/010/030 B106/B110

dissolution of the mishmetal was also examined. In the anodic dissolution, the chlorides of bivalent elements are formed in the melts, whose reaction with O also leads to the formation of oxychlorides of the composition mentioned. [Abstracter's note: Complete translation.]

Card 2/2

"Electric Conductivity of Vanadium Slags," lecture given at the Fourth Conference on Steelmaking, A.A. Baikov Institute of Metallurgy, Moscow, July 1-6, 1957

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
CIA-RDP86-00513R00206

AUTHORS:

Yesin, O. A., Zyazev, V. L.

SOV/78-3-9-23/38

TITLE:

The Electric Conductivity of the Systems v_20_5 -PbO, v_20_5 -GaO, and v_2o_5 -MgO (Elektrop:ovodnost' sistem v_2o_5 -PbO, v_2o_5 -CaO i V₂0₅-Mg0)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 9, pp 2143-2149 (USSR)

ABSTRACT:

The electric conductivity in the systems v_2o_5 -PbO, v_2o_5 -CaO, and V205-MgO was investigated within the temperature range of the liquid and solid state. Three congruently melting compounds occur in the system $v_2^0_5$ -PbO: $v_2^0_5$ -2PbO, $v_2^0_5$ -3PbO, and $v_2^0_5$ -8PbO. The electric conductivity is investigated in pure V_2O_5 and PbO as well as in nine melts containing 23,5-95% PbO. The isothermal lines of the electric conductivity and the values of the activation energy E were compared as well in the phase diagram. Two maxima occur on the curve of the activation energy: 14,4 k.cal/mol in the case of 87% PbO and 15,2 k.cal/mol in the

Card 1/3

case of 98% PbO. These maxima correspond to the occurrence of

The Electric Conductivity of the Systems v_2o_5 -PbO, v_2o_5 -CaO, and v_2o_5 -MgO

the following chemical compounds: V_2O_5 . 3PbO and V_2O_5 . 8PbO. The electric conductivity is increased with rising PbO-content up to 45%. The electric conductivity in the system $\rm V_2O_5$ -CaO was investigated for melts of V_2O_5 -CaO with 11,7 - 37% CaO. The melt has ionic conductivity at 23,4% CaO. The compound V205. CaO exists in the liquid melt. In the initial period the electric conductivity decreases rapidly to 10% CaO in these melts, probably in consequence of the dissociation of V205 at higher temperatures. The system v_20_5 -MgO is completely analogous to the system $v_2^0_5$ -CaO. The melt has ionic conductivity at a MgO content of 20,7%. MgO, CaO, and PbO influence the structure of V205 in the melt. The form of the isothermal lines of the electric conductivity and the curves of the activation energy indicate the presence of the following compounds in the melt of the systems investigated: v_2o_5 .3Pbo, v_2o_5 .8Pbo, v_2o_5 .cao, 2V205.3MgO. There are 6 figures, 3 tables, and 12 references,

Card 2/3

The Electric Conductivity of the Systems v_20_5 -Pb0, v_20_5 -Ga0, and v_20_5 -Mg0

5 of which are Soviet.

ASSOCIATION:

Ural'skiy filial Akademii nauk SSSR, Institut metallurgi: (Ural Branch, AS USSR, Institute of Metallurgy)

SUBMITTED:

January 15, 1957

Card 3/3

31671 S/631/60/000/001/008/014 B117/B147

5.4700

AUTHORS: Ivanovskiy, L. Ye., Ilyushchenko, N. G., Zyazev, V. L.,

Plekhanov, A. F.

TITLE: Oxychlorides of rare earths of lowest valencies

SOURCE: Elektrokhimiya rasplavlennykh solevykh i tverdykh elektrolitov,

no. 1, 1960, 55-60

TEXT: The interaction of oxygen and rare earth metals with chloride melts of rare earths was studied. In the first series of experiments, the authors used a misch metal (% by weight: 22.5 La, 53.0 Ce, 4.53 Pr, and 16.3 Nd) obtained by electrolysis, and a chloride mixture (% by weight: 26 La, 53.9 Ce, 4.85 Pr, 11.42 Nd) obtained by chlorination of oxides of rare earths with gaseous chlorine in the presence of carbon. The result was a deposit of oxychlorides of lowest valency: Me₂OCl₂, where Me stands for La, Ce, Pr, and Nd. This mixture is slowly hydrolyzed in water to give hydrates of highest valency. When boiling, decomposition proceeds rather quickly. During heating, the product readily reacts with acids, particularly

Card 1/3

31671 S/631/60/000/001/008/014 B117/B147

Oxychlorides of rare earths of lowest ...

nitric acid. It oxidizes easily at 300-400°C forming mixtures of oxides of rare earths at higher temperatures. In another series of experiments, the reaction of oxygen with chlorides of rare earths in an open bath at 580 - 600°C was studied. A graphite vessel was used as electrolyzer and anode, and molybdenum rods were used as cathodes. The electrolyte was a mixture of chlorides of rare earths and potassium chloride (50% MeCl, and KC1). The amount of lowest oxychlorides formed in all experiments depended on the amount of products in the bath obtained by decomposition of salts under the action of oxygen and moisture. Finally, the misch metal in the potassium chloride melt was anodically dissolved at 850°C in an open and a closed bath. The authors always found oxychlorides of lowest valencies with a ratio equal to that of initial substances. Summary: In the case of interaction between oxygen, chloride melts of rare earths, and misch metal mixtures of low-valency oxychlorides of rare earths were obtained. The summational reaction can be written down: $4\text{MeCl}_3 + 30_2 + 8\text{Me} = 6 \text{ Me}_2 \text{OCl}_2$. The formation of oxychlorides on the cathode may be explained by the formation of Me₂OCl₄ soluble in the melt by

Card 2/3

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31671 Oxychlorides of rare earths of lowest ... 8/631/60/000/001/008/014

decomposition of salts. The formation of Me₂OCl₂⁺⁺, whose discharge on the cathode yields Me₂OCl₂, is well possible. At the same time, direct reaction of decomposition products with the metal deposited on the cathode is also possible. Bivalent chlorides of rare earths are formed in the melt due to anodic dissolution of the misch metal. Their reaction with oxygen also yields oxychlorides of the same composition. There are 4 figures, 2 tables, and 5 references: 4 Soviet and 1 non-Soviet.



"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZYAZEV, V.L.; YESIN, O.A.

CIA-RDP86-00513R002065720016-2
CIA-RDP86-00513R002065720016-2

Viscosity and density of the systems V205-CaO and V205-MgO.

Isv.Sib.otd. AN SSSR no.9:3-9 158. (MIRA 11:11)

1. Ural'skiy filial Akademii nauk SSSR. (Vanadium oxides) (Viscosity) (Fusion)

CIA-RDP86-00513R002065720016-2 CIA-RDP86-00513R002065720016-2"

21,567

8/137/61/000/005/005/060 A006/A106

5 4700

Ivanovskiy, L.Ye., Ilyushchenko, N.G., Zyazev, V.L., Plekhanov, A.F.

AUTHORS:

TITLE:

On oxychlorides of rare earths of lower valences

PERIODICAL:

Referativnyy zhurnal. Metallurgiya, no. 5, 1961, 16, abstract 5A94 ("Tr. In-ta elektrokhimii. Ural'skiy fil. AN SSSR", 1960, no.1, 55-60)

An investigation was made of the interaction of mixtures of rare earth chlorides and "mishmetall" in the presence of .02. A mixture of low valence oxychlorides, Me20Cl2, was singled out where the metals were La, Ce, Pr, Nd. Some of their properties were investigated. It is shown that in electrolysis of chloride bathes, where the possibility of a contact of atmospheric O₂ and moisture with the melt was not excluded, Me₂OCl₂²⁺ oxycations are apparently formed ture with the oxidation of salts. The discharge of these oxycations on the as a result of the oxidation of salts. cathode causes the formation of oxychlorides of lower valence, the Me₂OCl₂. The anodic dissolving of mishmetal was investigated. During the anodic dissolution in the melts 2-valent chlorides of rare earths are formed, whose interaction with O2 causes also the formation of oxychlorides of the same composition. [Abstracter's note: Complete translation]

Card 1/1

ZYAZEV, V.L. (Sverdlovsk); TANUTROV, I.N. (Sverdlovsk)

The gas content of anodic copper. Izv. AN SSSR. Otd. tekh. nauk.

Met. i gor. delo no.2:54-58 Mr-Ap '63.

(MIRA 16:10)

ZYAZEV, V.L.; TANUTROV, I.N.

Behavior of impurities and hydrogen on the fire refining of copper. TSvet. met. 36 no.8:80-83 Ag !63. (MIRA 16:9) (Copper-Metallurgy) (Gases in metals)

ZYAZEV, V.L.; YESIN, O.A.

Viscosity and density of the systems V_2O_5 — $F_{e_2}O_3$, V_2O_5 — CuO and V_2O_5 — CaO — $F_{e_2}O_3$. Izv. Sib. otd. AN SSSR no.10:13-20 (MIRA 11:12)

1. Ural'skiy filial AN SSSR.
(Systems (Chemistry)) (Viscosity) (Fusion)

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 3, p 24 (USSR) SOV/137-59-3-5058 D

AUTHOR: Zyazev, V. L.

TITLE: Physicochemical Properties of the Simplest Vanadium Slags (Fizikokhimicheskiye svoystva prosteyshikh vanadiyevykh shlakov)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of

Candidate of Technical Sciences, presented to the Ural'skiy polite-

khn. in-t (Ural Polytechnic Institute), Sverdlovsk, 1958

ASSOCIATION: Ural'skiy politekhn. in-t (Ural Polytechnic Institute), Sverdlovsk

Card 1/1

相關的問題

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 CIA-RDP86-00513R002065720016-2" APPROVED FOR RELEASE: Thursday, September 26, 2002

AUTHORS:

Zyazev, V. L., Yesin, O. A.

78-3-6-15/**3**0

TITLE:

Viscosity and Density in the V205-PbO-System

(Vyazkost' i plotnost' sistemy V₂O₅-PbO)

PERIODICAL:

Zhurnal Neorganicheskoy Khimii, 1958, Vol. 3, Nr 6,

pp. 1381-1385 (USSR)

ABSTRACT:

The viscosity and the density of the enamels of the V205-Pb0-

system including the pure oxides of V205-PbO were

determined.

The determinations of density were performed by heating and

cooling the enamel.

The dependence of temperature on the viscosity and density in the V₂O₅ enamels with a PbO content of 28,3-88,9% was

investigated.

The density of the enamels of the V205-PbO-system was investigated at temperatures of 800, 1000, and 1200°C. At 68% PbO a minimum is observed in the density curve and

in alloys with 79,7% a break was found. Probably the

atomic groupings occur in the enamel under formation of the

Card 1/2

following chemical compounds:

Viscosity and Density in the V_2O_5 -PbO-System

78-3-6-15/30

V₂O₅.2РbO, V₂O₅.3РbO, V₂O₅.8РbO.

It was found that in the enamel of the system at 1000° C a relatively high specific conductivity and little viscosity are prevailing. The existence of the above-mentioned chemical compounds was confirmed by the curves of viscosity and the determinations of density of the enamels of the V_2O_5 -PbO-system. There are 3 figures, 2 tables, and 10 references, 7 of which are Soviet.

ASSOCIATION: Institut metallurgii Uralskogo filiala Akademii nauk SSSR

(Institute of Metallurgy, Ural Branch AS USSR)

SUBMITTED: July 29, 1957

AVAIDABLE: Library of Congress

1. Enamels--Viscosity 2. Enamels--Density 3. Viscosity--Temperature

factors 4. Density--Temperature factors

Card 2/2

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
YESIN, O.A.; ZYAZEV, V.L. (Sverdlovsk)

Mlectric conductivity of binary systems composed of vanadium pentoxide with iron oxide and copper oxide and a number of intricate alloys. Izv.AN SSSR. Otd. tekh. nauk no.6:7-11 Je 158.

(MIRA 11:8)

1. Institut metallurgii Ural'skogo filiala AN SSSR. (Vanadium alloys-Electric properties)

15 电相图

Electric conductivity of oxides of vanadium, lead, and copper.

Zhur.neorg.khim. 2 no.9:1998-2002 S '57. (MIRA 10:12)

1. Ural'skiy filial AN SSSR, Institut metallurgii AN SSSR.

(Vanadium oxides--Electric properties)

(Lead oxides--Electric properties)

(Copper oxides--Electric properties)

OVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 CIA-RDP86-00513R002065720016-2"

ZYAZEV, V.L.

57-1-2/30

AUTHORS:

TITLE:

Zyazev, V. L., Yesin, O. A. On the Influence of the Short Range Order on the Character of Conductivity (O vliyanii blizhnego poryadka na

kharakter provodimosti).

PERIODICAL:

Zhurnal Tekhnicheskoy Fiziki, 1958, Vol. 28, Nr 1,

ABSTRACT:

The authors refer to the works of A. F. Toffe (reference 1) and Regel' (reference 1). These stated that for the character of the conductivity the short and not long range order of the conductivity the short and not long range order. pp. 18-22 (USSR) of the conductivity the short and not long range order of the atoms is of great importance. The measurement results of the atoms is of great importance. the electric conductivity of binary alloys of V205 with PbO, CaO and MgO in various compositions and at

various temperatures are given. The measurements were carried out in open resistance furnaces (in the air) with alternating current, looo c frequency, usual resistance bridge (as zero instrument served a cathode oscillograph). As V₂O₃ when being cooled oxidizes to V₂O₅ second heating were more reliable and only these results are

given here. The authors show that the transition from the

Card 1/3

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513...

Of Conductivity of the Short Range Order on the Character

semiconductor mechanism to the ion mechanism in the systems begins with unequal MeO concentrations. In alloys of V₂C₅ with CaO it begins at 23,4 % CaO, in the V₂O₅-MgOsystem at 27,7 % MgO and with V205-PbO at 71 %. PbO. In all chemical commound in the respective system. Such a resultant cases the transition-begin corresponds with the transition-begin corresponds with the frespective system. Such a regularity points out the important part of the short range order in the atomic distribution for the realization of the semiconductor electric conductivity in alloys. The character of the polytherms for the electric conductivity shows that in the V₂0₅-Pb0, V₂0₅-Ca0 and V₂0₅-Mg0 alloys the semiconductor mechanism passes over to an ion mechanism with compounds which correspond to the chemical compounds with the least which correspond to the chemical compounds with the regularity determined proves the opinion of Ioffe. There are 4 figures, and 13 references, 6 of which are Slavic.

Card 2/3

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 CIA-RDP86-00513R002065720016-2"

On the Influence of the Short Range Order on the Character

ASSOCIATION: Institute for Metallurgy of the Ural Branch AN USSR, Sverdlovsk (Institut metallurgii Ural skogo filiala AN SSSR, Sverdlovsk).

SUBMITTED: March 26, 1957

AVAILABLE: Library of Congress

ZYAZEV, V.L.; TANUTROV, I.N.

Effect of vacuuming on the composition and properties of cast copper. TSvet. met. 36 no.5:30-34 My 163. (MIRA 16:10)

SOV/24-58-6-2/35

O.A. Yesin and V.L. Zyazev AUTHORS:

TUS BOUGHTAINE SE BRUSHRUHIR SOLDSIGH STUDIS

Electrical Conductivity of the Binary Vanadium Pentoxide-Iron Oxide and Vanadium Pentoxide-Copper Oxide Systems, TITLE: and of some other Complex systems (Elektroprovodnost!

dvoynykh sistem pyatiokisi vanadiya s okisyu zheleza 1

okis yu medi i zyada slozhnykh splavov)

PERIODICAL: Izvestiya akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, 1958, Nr 6, pp 7-11 (USSR)

ABSTRACT: The electrical conductivity of several oxide systems was investigated to ascertain the extent to which they constituted semi-conductors in the solid and liquid states. The quasi-binary systems V205 - Fe203 and V205 Cu0 were studied together with three compositions based on the studied together with three compositions based on the ternary system V205 - CaO - Fe203 (see the table on p 10). Two quaternary melts (V205 32.0%, CaO 38%, SiO2 19%, MgO 10%, and V205 18.6%, CaO 23.4%, SiO2 27.2%, MnO 10%) of industrial impositions were also investigated. A carbon element resistance furnace was used for the research carbon element resistance furnace was used for the research, the reaction between the carbon and metallic oxides at

high temperatures being prevented by a porcelain lining Card 1/7

SOV/24-58-6-2/35
Electrical Conductivity of the Binary Vanadium Pentoxide-Iron Oxide and Vanadium Pentoxide-Copper Oxide Systems, and of some other complex systems:

The conductivity measurements were made over temperature ranges covering both liquid and solid states. The melts were held in corundum crucibles. The resistance was determined by means of a bridge fed with a 100 c.p.s. current, using a cathode ray oscillograph to indicate the balance conditions. Platinum wire electrodes were employed for immersion into the oxide mixtures. The accuracy of the measurements was 10 to 15%. The experimental mixtures were heated to the maximum temperature and held at that temperature for 15 to 20 minutes, after which the melt was cooled and reheated. The most reliable conductivity measurements were obtained during the second heating cycle, and only these values are discussed in the paper. Chemical analysis after the final cooling showed that dissociation had occurred to a high degree, thus explaining the vigorous gas evolution observed during melting. The composition containing 15% of Fa203 was a critical one in the V205 - Fe203 systems

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sov/24-58-6-2/35

Electrical Conductivity of the Binary Vanadium Pentoxide-Iron Oxide and Vanadium Pentoxide-Copper Oxide Systems, and of some puter complex systems

below this composition vanadium pentoxide dissociated, while above this composition iron oxide decomposed. Decomposition in the V205 - CuO system was confined mainly to the copper oxide. The temperature dependence of the electrical conductivity of the V205 - Re203 system is illustrated in Fig 1, graphs 1,2 and 3 corresponding to Fe203 contents of 15, 19.4 and 30.5% respectively. It can be seen that: (a) the conductivity decreased with temperature over the 550-650°C range, except when the iron oxide content was very high; this negative temperature coefficient is attributed to the saturation of those impurity levels to which solid V205 owes its p-type conductivity; (b) above 650°C the conductivity increased smoothly with temperature, but in some instances a decrease in conductivity was observed in the 800-850°C The reason for this behaviour is not understood: but according to Martinet (Ref 3) and Grunewald (Ref 4) it can be attributed to the admixture mechanism of

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SOV/24-58-6-2/35

Electrical Conductivity of the Binary Vanadium Pentoxide-Iron Oxide and Vanadium Pentoxide-Copper Oxide Systems, and of some other complex systems.

conduction by which Fe203 is characterised. The presence of FeO as a decomposition product was believed to explain why many of the investigated compositions did not display this conductivity decrease; (c) the conductivity increase is accelerated at temperatures of about 900 to The weight losses observed at high temperatures with pure V₂O₅, and with the V₂O₅ - rich melts indicated considerable dissociation of V₂O₅ and Fe₂O₃. The decomposition products V₂O₃ and Fe₀ appeared to influence the 950°C. temperature/conductivity relationships; for most of the alloys the curves for the liquid state are not exponential in character and therefore the activation energies could The conductivity isotherms repronot be determined. duced on Fig 2 indicate an accelerated increase of the electric conductivity at 15% Fe203. Above this composition conductivity due to Fe203plays the predominant part. For the V₂05 - CuO system, the conductivity-temperature relationships of the 10, 20, 30, 40 and 50% GuO alloys

Card 4/7

sov/24-58-6-2/35

Electrical Conductivity of the Binary Vanadium Pentoxide-Iron Oxide and Vanadium Pentoxide-Copper Oxide Systems, and of some water Complex systems

are shown in Fig 3, (graphs 1 to 4 respectively). In this case, the conductivity also decreased with temperature over the 500 to 6250C range, but the decrease was much larger than that observed in the previous system. (The table, p 9, gives the factors by which the electric conductivity of various alloys dropped in this temperature range: for the 30% CuO alloy this factor amounted to 80.) Compositions containing 10 to 35% CuO had a high conductivity which was attributed to an increased transfer of electrons from the copper oxide to those impurity levels which determine the p-type conductivity of solid The decrease in conductivity observed within this V2050 temperature range might have been intensified by the volume changes which, according to Lucas et al. (Ref 1), occur when alloys containing up to 35% CuO are heated to At temperatures higher than 800-850°C the 650-700°C。 conductivity increased with increasing temperature. This effect is attributed to the presence of the dissociation

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SOV/24-58-6-2/35

Electrical Conductivity of the Binary Vanadium Pentoxide-Iron Oxide and Vanadium Pentoxide-Copper Oxide Systems, and of some Ather Complex Systems

products, mainly Cu₂0. The conductivity isotherms of the V₂05 - Cu₀ system reproduced on Fig 4 (graphs 2 to 7) exhibit two sharp maxima at 25 and 60% Cu₀. The first maximum was observed only at 500-600°C. The second maximum, whose magnitude increased with temperature, is probably due to decomposition of Cu₀ which brings about an increased concentration of the current carriers. The conductivity isotherms of the ternary and quaternary systems are shown on Figs 5 and 6 respectively: in these cases, no decrease in the conductivity with rise of temperature was observed. The experimental findings indicated that all compositions of the two studied quasibinary systems behave as semi-conductors both in the

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SOV/24-58-6-2/35

Electrical Conductivity of the Binary Vanadium Pentoxide-Iron Oxide and Vanadium Pentoxide-Copper Oxide Systems, and of some other Complex Systems

solid and in the liquid states.

There are 6 graphs, 3 tables and 13 references, of which 6 are Soviet, 4 English, 2 German and 1 French.

ASSOCIATION: Institut Metallurgii Ural'skogo Filiala AN SSSR (Institute of Metallurgy Ural Branch Ar.S. USSR) SUBMITTED: February 14, 1957

Card 7/7

ZYAZIKOV, B.Kh., mayor zapasa; GRINCHENKO, V.Ye., polkovnik, red.;

BELYAYEV, M.M., podpolkovnik, red.; SUKHCMLINOV, P.M.,

mayor, red.; GOLUBEV, G.O., polkovnik zapasa, red.; FAVLOV,

P.I., polkovnik v otstavke, red.; YABLOKOVA, G.I., red.

[Gold Stars of the Chechen-Inguish A.S.S.R.; sketches on Heroes of the Soviet Union] Zolotye zvezdy Checheno-Ingushetii; ocherki o Geroiakh Sovetskogo Soiusa. Groznyi, Checheno-Ingushekoe knizhnoe izd-vo, 1964. 310 p. (MIRA 18:4)

BITEKHTINA, V.A.; ZYBIN, A.S.; KNYAGINICHEV, N.I.

Developing fisheries on the Ik-Saltaim-Tenis Lake system. Izv. Omsk. otd. Geog. ob-va no.5:131-136 '63. (MIRA 17:5) "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP8

ZYAZIN, G.

Locating the point of contact of a line and an electric wire.

Radio no.6:45 Je '56. (MLRA 9:8)

1. Zaporozhskaya DRTS.
(Blectric lines)

ZYAZIN, I.G.

Significance of work arrangement for patients in a dispensary serving a rural population. Sov.med. 26 no.10:144-145 0 '62. (MIRA 15:12)

l. Iz Vorontsovskoy uchastkovoy bol'nitsy (glavnyy wrach S.M. Yershov) Voronezhskoy oblasti.
(PUBLIC HEALTH, RURAL) (REHABILITATION)

ZYAZIN, I.G. (selo Vorontsovka Voronezhskoy oblasti)

Role of the feldsher-midwife center in lowering the incidence of dysentery. Fel'd, i akush. 24 no.12:23-27 D 59. (MIRA 13:2) (YORONTSOV DISTRICT--DYSENTERY) (PUBLIC HEALTH, RURAL)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2"

ZYAZIN, I.G.

Variable work schedule and preventive work in a district. Sov.zdrav. (MIRA 11:8)

1. Iz Vorontsovskoy rayonnoy bol'nitsy (glavnyy vrach L.V. Yadykina)
Voronezhskoy oblasti.
(MEDICINE, PREVENTIVE
in Russia (Rus))

ZYAZIN, I.G. (g.Bobrow)

Results of four years of dispensary services for the rural population. Sov. zdrav. 21 no.9: 59 162 (MIRA 17:4)

1. Iz bol'nitsy Vorontsovskogo rayona, Voronezhskoy oblasti.

ZYAZIN, I.G. (Bobrov)

Mortality in the Vorontsovskiy District from 1950 to 1958. Sov. zdrav. 21 no.3:43-46 '62. (MIRA 15:3)

1. Iz Vorontsovskoy bol'nitsy Voronszhskoy oblasti.
(VORONEZH PROVINCE---MORTALITY)

ZYAZIN, I.G. (selo Vorontsovka Voronezhskoy oblasti)

Role of intermediate medical personnel in providing dispensary services in rural areas. Feltd. i akush. 23 no.6:46-48 Je 58 (MIRA 11:6)

(MEDICINE, RURAL)

ZYAZINA, O.

Flaz - Vologda (Province)

Raising fiber flax. Kolkh.proizv. 12 No. 3, 1952

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

BLYUMBERG, I.B.; ZYAZINA, T.M.; TEREGULOV, G.I.

New method of determining the sharpness of the photographic image. Zhur.nauch.i prikl.fot.i kin. 7 no.4:268-271 JL-Ag '62. (MIRA 15:8)

1. Leningradskiy institut kinoinzhenerov (LIKI). (Photographic sensitometry)

BLYUMBERG, I.B.; ZYAZINA, T.M.; TERGULOV, G.I.

Investigating changes in the quality of the photographic image during printing. Tekh.kino i telev. 4 no.7:10-18 Jl '60. (HIRA 13:7)

1. Leningradskiy institut kinoinzhenerov i TSentral'noyekonstruktorskoye byuro Ministerstva kul'tury SSSR. (Photographyr-Printing) "APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
CIA-RDP86-00513R002065720016-2
CIA-RDP86-00513R002065720016-2
CIA-RDP86-00513R002065720016-2

Rating the quality of the cinematographic image. Usp.nauch.fot. 10:50-57 164. (MIRA 17:10)

GLEZER, V.D.; ZYAZINA, Z.N.; SMOLENSKAYA, L.N.

Changes in the foveal receptor fields in man. Biofizika 7 (MIRA 15:11)

1. Institut fiziologii imeni I.P.Pavlova AN SSSR, Leningrad. (VISION RESEARCH)

ZYBAILO, A. V.

Podgotovka proizvodstva na avtomobil'nom zavode (Preparation of production at an automobile-plant). Moskva, Mashgiz, 1950. 116 p.

SO: Monthly List of Russian Accessions, Vol 6, No. 3, June 1953

SHEVTSOV, Ye.I., inzhener; YATSOVSKIY, S.A., inzhener; ZYBAKOV S.M., inzhener; BABIN, P.N., inzhener.

Overlay welding of basic hearths. Stal.proizv.no.1:109-119 '56. (MLRA 9:9)

1. Kazakhskiy metallurgicheskiy zavod (for Shevtsov, Yatsovskiy).
2. Institut arkhitektury, stroitel'stva i stroitel'nykh materialov
AN KazSSR (for Zubakov, Babin).
(Open-hearth furnaces--Repairing)

ZYBIN, A.G.; POPKOV, L.P.

Protection of electric mine motors. Vop.bezop.v ugol.shakh. (MIRA 18:1)

NOSYREV, V., nauchnyy sotrudnik; YAKUNINA, A.; ZYBIN, B., mladshiy nauchnyy sotrudnik

Poppy pests. Zashch. rast. ot vred. i bol. 10 no.8:54-55 '65. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lekarstvennykh i aromaticheskikh rasteniy (for Nosyrev). 2. Praheval'skaya zonal'naya opytnaya stantsiya Vsesoyuznogo nauchno-issledovatel'-skogo instituta lekarstvennykh i aromaticheskikh rasteniy (for Zyubin).

Air and fire fl w-through connection linking in Angren. Nauch.teudy VNIIPodzemgaza no.10:45-51 '63. (MIRA 17:5)

l. Laboratoriya gazifikatsii burykh uglay "nosayuznaga nauchnoissledovatal'skogo instituta podzemnoy gaz fikatsii uglay.

NUSINOV, G.O., doktor tekhn.nauk; ZYBALOVA, G.P., kard.tekhn.nauk; Prinimali uchastiye: RETINSKAYA, A.N., inzh.; ZVYAGINTSEV, K.N., inzh.; DUSHANOVA, N.N., inzh.; KARNASH, E.M., inzh.

First data on the underground coal gasification in the experimental gas producer of the Angren "Podgemgaz" Gas Producer Plant. Nauch, trudy VNII Podgemgaza no.6:3-10'62. (MIRA 15:11)

l. Laboratoriya gazifikatsii burykh ugley Vsesoyuznogo nauchno-issledovatel'skogo instituta podzemnoy gazifikatsii ugley.

(Angren Basin-Coal gasification, Underground)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RUP86-00513R002065720016-2 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RUP86-00513R002065720016-2" 194-66 EJF (1)/FJA(h)

L 2094-66 ETT(1)/EVA(h) ACCESSION NR: AR5008345

S/0275/65/000/002/A010/A010 621.385

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 2A30

AUTHOR: Zybin, G. P.; Tregubov, V. F.

TITLE: Tricde electron gun for shaping an electron beam at lower-than-natural

CITED SOURCE: Izv. Leningr. elektrocekh, in-ta, vyp. 53, 1964, 287-300

TOPIC TAGS: electron gun, electron beam, triode electron gun

TRANSLATION: Operation is considered of an electron gun with its control grid near its cathode under conditions when the grid potential is lower than the natural potential (the latter existed at the place now occupied by the grid). Running the grid below natural potentials is necessary in order to reduce the grid-heating average power. However, this also reduces the beam space-charge parameter and a lens effect occurs of the grid cells. The lens effect may considerably increase the beam diameter. A formula is derived for the relation of the space-

Card 1/2

HERRIE BINGBIHERING SERVER BEN DEN DE APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00518R002065720016 L 2094-66 ACCESSION NR: AR5008345 charge parameters in diode and triode guns, as well as a formula for the lens effect. A method of gun design is suggested. Designing a grid-type gun should start with selecting a diode system with a definite current margin. As the lenseffect-caused variation of the beam diameter is impossible to calculate, the designing must be completed by an electrolytic cell simulation. A gun was designed which shapes a 4-mm diameter electron beam with a 10 smp/v 1/2 space charge, at zero potential on the grid with a gain of about 20 and an accelerating voltage up to 20 kv. The basic diode system had a space-charge parameter of 3.6 x 10⁻⁶ amp/v^{3/2}. The estimated gun parameters are in good agreement with the experimental. Bibl. 4. ENGL: 00 SUB CODE: EC

ZYBALOVA, G. P., Cend Tech Sci (diss) -- "Erown coals as a raw material for underground gasification". Moscow, 1960. 18 pp (Acad Sci UBSR, Inst of Mineral Fuels), 230 copies (KL, No 15, 1960, 134)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZYBALOVA, G.P.; ZVYAGINTSEV, K.N.

Effect of certain lignite properties on fire drift movements advancing toward the blow. Podzem.gaz.ugl. no.2:46-51 159.
(MIRA 12:9)

1. Vsesoyuznyy nauchno-issledovatel skiy i proyektnyy institut podzemnoy gazifikatsii ugley.

(Lignite--Testing) (Coal gasification, Underground)

YEREMIN, I.V.; ZYBALOVA, G.P.

Effect of petrographic characteristics of coal on the efficiency of pre-heating in the undergroundgesification process. Podzem. gas. ugl. no. 2:59-64 158. (MIRA 11:7)

1. Institut goryuchikh iskopayenykh im. G.M. Krzhizhanovskogo AN SSSR i Vsesoyuznyy nauchno-issledovatel skiy institut Podsemgaz. (Coal-Testing)

(Coal gasification, Underground)

ZYBALOVA, G.P.

Angren coal for use in underground gasification. Podzem.gaz.ugl. no.2:110-113 '57. (MIRA 10:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut Podzemgaz. (Coal gasification, Underground) (Angren Valley--Goal)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 LAVROV, N.V., akademik; ZYBALOVI. G.P.

Reactivity of Angren and Moscow coals. Izv.AN Uz.SSR. Ser.tekh.nauk no.6: 58-63 61. (MIRA 14:12)

1. Institut goryuchikh iskopayemykh AN SSSR 1 Institut energetiki i avtomatiki AN Uzbekskoy SSR. 2. AN Uzbekskoy SSR (for Lavrov). (Moscow Basin--Coal--Analysis)

ZYAT'KOVA, L. K. Canc Geol-Mineral Sci — (diss) "The use of geologo-)
geomor phological methods for explaining the local structures
of the central area of the desern Siberian lowland," Novosibirsk,
1960, 17 pp, 150 cop (Tomsk State U im V. V. Kuybyshev) (KL, 43-60, 117)

ZYAT'KOVA, L.K.

Notice of the West Siberian Plain. Gool. i goofiz. no. 9:12-20 '60. (MIRA 14:2)

1. Institut Seologii i goofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(West Siberian Plain-Geology, Structural)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 CIA-RDP86-00513R002065720016-2" PETROV, Ye.N.; ZYAT'KOVA, L.K.

Methods and results of geological and geomorphological investigations carried out in order to study structures in the central areas of the West Siberian Plain. Trudy SMICCIES 9:87-96 '60. (MicA 14:7)

(West Siberian Plain—Geology, Structural)

ZYAT'KOVA, Luiza Konstantinovna; NIKOLAYEV, V.A., kand.geol.-mineral.nauk, otv.red.; ALEKSANDROVSKIY, B.M., red.; LOKSHINA, O.A., tekhn.red.

[Geological and geomorphological methods of detecting local structures, the central part of the West Siberian Plain.] Geologo-geomorfologicheskie metody vyiavleniia lekal'nykh struktur; tsentral'naia chast' Zapadne-Sibirskoi nizmennesti. Nevosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR, 1961. 76 p. (Akademiia nauk SSSR, Sibirskoe otdelenie. Institut geologii i geofiziki. Trudy, no. 14).

(MIRA 16:9)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZTAT'KOVA, Li.K.; PETROV, Ye.N.

Analyzing longitudinal river profiles to find structures in the West Siberian Lowland. Izv.AN;SSSR.Ser.geog. no.3:89-90 My-Je '61.

(West Siberian Lowland—Rivers)

(West Siberian Lowland—Rivers)

Geology and geomorphology of the Ases uplifts region (Vakh Basin). Trudy SNIIGGIMS no.7:101-107 '61. (MIRA 16:7)

(Vakh Valley-Geology)

The Fifth Flenum of the Geomerphological Commission. Izv. AN SSSR. Ser. geog. nc.4:136-138 J1-Ag '65. (MIRA 18:3)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2

ZIL'BER, M.K. (Chelyabinsk); ZYAT'KOVA, L.R. (Chelyabinsk)

Composition of the gaseous phase of blast furnace tap cinder.

Izv. AN SSSR.Otd.tekh.nauk. Met. i topl. no.5:66-68 S-0 '62.

(MIRA 15:10)

KARPOV, Boris Dmitriyevich; ZYATYUSHKOV, A.I., red.; LEBEDEVA, G.T., tekhn. red.

[Work hygiene in industrial painting] Gigiena truda pri maliarnykh rabotakh. Leningrad, Medgiz, 1963. 38 p. (MIRA 16:11)

(Painting, Industrial -- Safety measures)

EURLOVA, Lidiya Yokovlevna; LEBEDEVA, Aleksandra Filippovna; TARASOVA, Anna Vladimirovna; ZYATYUSHKOV, A.I., red.; EUGROVA, T.I., tekhn.red.

[Work hygiene in plants of the textile industry; cottonspinning and weaving manufacture] Gigiena truda na predpriiatiiakh tekstil'noi promyshlennosti: v bumagopriadil'nom i tkatskom proizvodstve. Leningrad, Medgiz, 1963. 49 p. (MIRA 16:12)

(COTTON MANUFACTURE--HYGIENIC ASPECTS)

AERAMOVICH, Grigoriy Borisovich, prof.; ZYATYUSHKOV, A.I., red.

[For parents about epileptic children] Roditeliam o detiakh, boleiushchikh epilepsiei. Izd.2. Leningrad, Izd-vo "Meditsina," 1964. 37 p. (MIRA 17:5)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
SHAGOVA, Yekaterina Mikhaylovna;
Z.V., tekhn. red.

CIA-RDP86-00513R002065720016-2
ZYATYUSHKOV, A.I., red.; LEBEDEVA,

[Guard children's eyesight; eye injuries and their prevention]
Beregite zrenie detei; povrezhdeniia glaz i ikh preduprezhdenie. Leningrad, Medgiz, 1962. 22 p. (MIRA 15:8)
(EYE--WOUNDS AND INJURIES) (EYE--PROTECTION)

ROZENFEL'D, Aleksandr Semenovich; ZYATYUSHKOV, A.I. red.; LEBEDEVA, G.T., tekhn. red.

[Water and health; hygiene of water supply] Voda i zdorov'e; gigiena vodosnabzheniia. Leningrad, Medgiz, 1963. 29 p.
(MIRA 16:10)

(WATER SUPPLY-HYGIENIC ASPECTS)

TONKONOGIY, Iosif Moiseyevich; ZYATYUSHKOV, A.I., red.; BUCROVA, T.I., tekhn. red.

[Speech disorders, their prevention and treatment] Rechevye rasstroistva, ikh preduprezhdenie i lechenie. Leningrad, Medgiz, 1963. 34 p. (MIRA 17:3)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2

SHAFOVAL, Aleksey Nikitovich; ZYATYUSHKOV, A.I., red.; EUGROVA,

T.I., tekhn. red.

[Tick-borne encephalitis; prevention] Kleshchevoi entsefalit; profilaktika. Leningrad, Medgiz, 1963. 56 p.

(MIRA 17:3)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 CIA-RDP86-00513R002065720016-2"

RETNEV, Vladimir Mikhaylovich; ZYATYUSHKOV, A.I., red.; ONOSHKO, N.G., tekhn. red.

[Work hygiene in concrete production] Gigiena truda pri izgotovlenii betona. Leningrad, Medgiz, 1963. 99 p.

(MIRA 16:9)

(CONCRETE PLANTS—SAFETY MEASURES)

SOV/177-58-4-22/32

AUTHORS: Zyatyushkov, A.I., Colonel of the Medical Corps, Candidate of Medical Sciences, and Tsukerman, B.G.

TITLE: The Accommodations and Sick Rate of Submarine Crews

(Usloviya obitayemosti i zabolevayemosti lichnogo sostava na podvodnykh lodkakh) According to Data From Foreign Publications (Po dannym inostrannoy pechati)

PERIODICAL: Voyenno-meditsinskiy zhurnal, 1958, Nr 4, pp 74-80 (USSR)

ABSTRACT: The article is founded on data from American, German and

Italian literature. There is 1 table.

Card 1/1

THOUSE N

ZYATYUSHKOV, Alfey Ivanovich; DEPBO, A.G., red.

[Reduction of pulmonary gas volumes to normal conditions and calculations of some proper values; principles and tables] Privedenie legochnykh obmemov gazov k normal'nym usloviiam i raschety nekotorykh dolzhrykh velichin; obosnovanie i tablitsy. Leningrad, Meditsina, 1965. 137 p. (MIRA 18:9)

*APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
PIENHANOV, A.F.; PODVAL'NYI, S.I.; ZYAZHY, A.T.

Removing copper from the cobalt oxide production cycle. TSvet.
met. 32 no.2:49-52 F '59.

(Gobalt metallurgy) (Copper)

AUTHOR: Zyazev, A.D.

136-2-14/22

TITLE:

Simplified Method of Protecting Plant from Corrosive Solution and Pulps in Cobalt Production. (Uproshchennyy sposob zashchity apparatury ot agressivnykh rastvorov i pul'p kobaltovogo proizvodstva)

PERIODICAL: Tsvetnyye Metally, 1957, No. 2, pp. 77-78 (USSR)

ABSTRACT: The disadvantages (slowness, complexity, expense, etc.)
of the method used, e.g. at the Ufaleyskiy Nickel Works, for
protecting plant metalwork from the corrosive action of material
being processed to obtain cobalt are outlined. A method is
proposed by N.V. Aleshintsev based on the use of type 500-600
Portland cement with bricks and plates. Examples given of
applications to different shapes of units include pipe connections, Pachuca tanks, collectors, cisterns for transporting
hypochlorite and suction filters. Per unit of protected area
this method cost about about a tenth compared with the method
described by K.A. Polyakov in "Non-Metallic Chemically Stable

1/1 Materials", pp. 80-86. It is recommended for wide use not only
in cobalt production. There are 6 figures.

AVAILABLE: Library of Congress

PIMENOV, L.I.; ZYAZEV, A.D.

Electric melting reduction of converter slags from nickel production. TSvet. met. 38 no.1:3,-36 Ja '65 (MIRA 18:2)

AUTHORS:

Zyazev, A.D. Plekhanov, A.F., Podval'nyy, S.I.,

TITIE:

Elimination of Copper from the Cobalt-Oxide Production Cycle (Vyvod medi iz tsikla pri proizvodstve okisi

PERIODICAL: Tsvetnyye Metally, 1959, Nr 2, pp 49-52 (USSR)

ABSTRACT:

The existing method at the Ufaleyskiy Nikelevyy Zavod (Ufaley Nickel Works) for removal of copper from cobalt solutions is to precipitate with soda ash. This gives solutions is to precipitate with some ash. This gives a copper cake with 0.3 to 0.5% cobalt which has to be reprocessed, leading to deleterious accumulation of copper in the first stage of cobalt-oxide production. The work described had the object of exploring the possibilities of using sodium hyposulphate for the precipitation, giving a copper cake which could be eliminated from the production cycle. Laboratory experiments showed (Fig 1) that 300% (or 7.5 kg per kg experiments showed (Fig 1) that 300% (or 7.5 kg per kg copper) of the theoretical amount of hyposulphate was necessary to precipitate all the copper independently of acidity (0.04 to 0.05% Co in the precipitate), that the best temperature for precipitation was 80 to 9000

Card 1/3

Elimination of Copper from the Cobalt-Oxide Production Cycle

the best hyposulphate concentration 10 to 20% (Fig 2) and duration 12 to 15 minutes (Fig 3). On the basis of these satisfactory results production trials on a mechanically-stirred vessel of 4.2 m3 caracity were in the other the solutions contained iron. The results (table) were substantially the same in both series but the duration of the subsequent operation of cobalt free solutions. The consumption of hyposulphate could interval between successive additions to 30 minutes and to make further treatment unnecessary. The yield of authors conclude that the possibility of copper

Card 2/3

"APPROVED FOR REIDSE: Thereday, September 26, 2002 CIA-RDP86-00513R002065720016-2"

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2"

POSITION The Cobalt-Oxide SOV/136-59-2-11/24 established. There are 3 figures and 1 table.

Card 3/3

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 CIA-RDP86-00513R002065720016-2" RUDNEV, G.P.; TKACHEV, P.G.; ZYAZEV, A.K.; LATSINIK, G. Ye.; SHCHERBAK, Yu.F.

Evaluation of some biochemical indices in epidemic hepatitis. Kaz. med. zhur. no.5:37-40 S-0'63 (MIRA 16:12)

1. Kafedra infektsionnykh bolezney (zav. - deystveitel'nyy chlen AMN SSSR prof. G.P. Rudney) TSentral'nogo instituta usovershenstvovaniya vrachey.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-10518-1051

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 CIA-RDP86-00513R00206720016-2 CIA-RDP86-00512-2 CIA-RDP86-00512-2 CIA-RDP86-00512-2 CIA-RDP86-00512-2 CIA-RDP86-00512-2 CIA-RDP86-0051

Using the system of closed circuits in organizing interurban freight haulage. Avt. transp. 38 no.9:11-14 S '60. (MIRA 13:9)

(Transportation, Automotive)

ZYAZEV, V.

Interurban trucking and vehicles used for it. Avt. transp. 37 nc.10: 23-26 0 '59. (MIRA 13:2)

1. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta. (Transportation, Automotive)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
ZZYAZEV, V.; LIKHACHEV, I.

Dirgot centralized automotive transportation of autonomotive articles (MIRA 1814)

 "APPROVED FOR RELEASE: Thursday, September 26, 2002
 CIA-RDP86-00513R002065720016-2

 APPROVED FOR RELEASE: Thursday, September 26, 2002
 CIA-RDP86-00513R002065720016-2

BILIBINA, N., kandidat ekonomicheskikh nauk; ZYAZEV, V., inzhener; SEREGIN, V., inzhener.

The efficient organization of centralized hauling in the region of Ivanovo Province. Avt.transp.33 no.10:5-7 0 55. (MLRA 9:1) (Ivanovo Province--Transportation, Automotive)

ZYAZEV. V., inshener; SHUSTOV, A., inshener.

Intercity automotive transportation in Poland. Avt.transp. 35 no.3:39 Mr '57. (MLRA 10:5) (Poland—Transportation, Automotive)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
TASIN, 8: 1718-1.

Organizing contralized intercity freight haulage by means of public automotive transportation. Avt. transp. 36 no. 6:4-9 Je '58.

(MTRA 11:7)

(Transportation, Automotive)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2"
ANDRIYEVSKIY, M.; ZYAZEV, V.

Efficient sugar teet transportation. Avt.transp. 40 no.4:15-16
Ap '62.

(MIRA 15:4)

ZYAZEV, V.; NAKASHIDZE, D.

New method for sugar-beet transportation. Avt. transp. 41 no.5:10-11 My '63. (MIRA 16:10)

(Sugar beets-Transportation)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2

ZYAZEV, V.

Centralized agricultural freight transportation. Avt.transp. 42 no. 4:15-17 Ap '64. (MIRA 17:5)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
CIA-RDP86-00513R002065720016-2
CIA-RDP86-00513R002065720016-2
CIA-RDP86-00513R002065720016-2

Develop and improve intercity freight haulage by means of small shipments. Avt. transp. 35 no.5:10-13 My '57. (MIRA 10:6)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZYAZEV, V.A.

Organization of traffic on interurban routes. Trudy MIEI ro. 20:
115-.125 '63.

(MIR4 17:3)

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2

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CIA-

ZYAZEV, V.L. (Sverdlovsk); FURASHEVA, M.W. (Sverdlovsk)

Cases in copper ingots and their determination. Izv. AN SSSR Met. 1 gor. delo no.2:132-136 Er-45*64 (MIRA 17:8)

ZYAZEV, V.L. (Sverdlovsk); ZAOREBEL'NYY, B.N. (Sverdlovsk); TANUTROV, I.H. (Sverdlovsk)

Gas content of wire bar copper. Izv. AN SSSR. Otd., tekh. nauk. Mot. i gor. delo no.1:80-86 Ja-F 163. (MIRA 16:3) (Copper—Analysis) (Gases in metals)

8/137/62/000/008/011/065 A006/A101

AUTHORS:

Ivanovskiy, L. Ye., Ilyushchenko, N. G., Plekhanov, A. F., Zyazev, V. L.

TITLE:

Separating rare-earth metals by fused salt electrolysis

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 8, 1962, 27, abstract 80188 ("Tr. In-ta elektrokhimii, Ural'skiy fil. AN SSSR", 1961, no. 2, 131 -

TEXT: Separation of rare-earth metals was investigated in fused bath electrolysis containing a mixture of rare-earth chlorides. It was found that at all the D_c (0.25 - 1.5 amp/cm²) and temperatures (850 - 870, 560 - 700°C) investigated, alloys are obtained which are considerably impoverished of La (3 - 5 weight %) and enriched with Ce (up to 80%). The total Pr and Nd amount remains practically constant. The nature of cathodic deposits varies noticeably with temperature. Their salt content varies from 75 to 80% at 560°C and from 30 to 40% at 700°C. There are 11 references.

[Abstracter's note: Complete translation]

G. Svodtseva

Card 1/1

ZYAZEV, V.L., Cand Tech Sci — (diss) "Physico-chemical properties of the simple vanadium draces."

Sverdlovsk, 1958, 12 pp. (Min of Higher Education USSR. Urali Polytech Inst im S.M. Kirov) 150 copies (KL, 32-58, 108)

27213

S/081/61/000/014/010/030

52300

AUTHORS:

عاب الوالي الله

Ivanovskiy, L. Ye., Ilyushchenko, N. G., Zyazev, V. L.,

Plekhanov, A. F.

TITLE:

Oxychlorides of rare earths of lowest valency

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 14, 1961, 97, abstract 14B15. (Tr. In-ta elektrokhimii. Ural'skiy fil. AN SSSR, no. 1, 1960, 55 - 60)

TEXT: The authors studied the reaction of a mixture of chlorides of rare earths with mishmetal in the presence of 02. They separated a mixture of oxychlorides of lowest valency, M20Cl2 (M = La, Ce, Pr, Nd). They studied some properties of these compounds. In the electrolysis of chloride baths where the possibility of a contact of 0, of air and moisture with the melt was not excluded, it was shown that the oxidation of the salts apparently yielded oxy cations M20Cl2+ which were discharged on the cathode and, thus, were transformed to the oxychlorides of lowest valency, M20Cl2. Card 1/2

Oxychlorides of rare earths of lowest ...

27213 \$/081/61/000/014/010/030 B106/B110

dissolution of the mishmetal was also examined. In the anodic dissolution, the chlorides of bivalent elements are formed in the melts, whose reaction with O also leads to the formation of oxychlorides of the composition mentioned. [Abstracter's note: Complete translation.]

Card 2/2

"Electric Conductivity of Vanadium Slags," lecture given at the Fourth Conference on Steelmaking, A.A. Baikov Institute of Metallurgy, Moscow, July 1-6, 1957

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2
CIA-RDP86-00513R00206

AUTHORS:

Yesin, O. A., Zyazev, V. L.

SOV/78-3-9-23/38

TITLE:

The Electric Conductivity of the Systems $v_2^0_5$ -PbO, $v_2^0_5$ -GaO, and v_2o_5 -MgO (Elektrop:ovodnost' sistem v_2o_5 -PbO, v_2o_5 -CaO i V₂0₅-Mg0)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 9, pp 2143-2149 (USSR)

ABSTRACT:

The electric conductivity in the systems v_2o_5 -PbO, v_2o_5 -CaO, and V205-MgO was investigated within the temperature range of the liquid and solid state. Three congruently melting compounds occur in the system $v_2^0_5$ -PbO: $v_2^0_5$ -2PbO, $v_2^0_5$ -3PbO, and $v_2^0_5$ -8PbO. The electric conductivity is investigated in pure V_2O_5 and PbO as well as in nine melts containing 23,5-95% PbO. The isothermal lines of the electric conductivity and the values of the activation energy E were compared as well in the phase diagram. Two maxima occur on the curve of the activation energy: 14,4 k.cal/mol in the case of 87% PbO and 15,2 k.cal/mol in the

Card 1/3

case of 98% PbO. These maxima correspond to the occurrence of

The Electric Conductivity of the Systems v_2o_5 -PbO, v_2o_5 -CaO, and v_2o_5 -MgO

the following chemical compounds: V_2O_5 . 3PbO and V_2O_5 . 8PbO. The electric conductivity is increased with rising PbO-content up to 45%. The electric conductivity in the system $\rm V_2O_5$ -CaO was investigated for melts of V_2O_5 -CaO with 11,7 - 37% CaO. The melt has ionic conductivity at 23,4% CaO. The compound V205. CaO exists in the liquid melt. In the initial period the electric conductivity decreases rapidly to 10% CaO in these melts, probably in consequence of the dissociation of V205 at higher temperatures. The system v_20_5 -MgO is completely analogous to the system $v_2^0_5$ -CaO. The melt has ionic conductivity at a MgO content of 20,7%. MgO, CaO, and PbO influence the structure of V205 in the melt. The form of the isothermal lines of the electric conductivity and the curves of the activation energy indicate the presence of the following compounds in the melt of the systems investigated: v_2o_5 .3Pbo, v_2o_5 .8Pbo, v_2o_5 .cao, 2V205.3MgO. There are 6 figures, 3 tables, and 12 references,

Card 2/3

The Electric Conductivity of the Systems v_20_5 -Pb0, v_20_5 -Ga0, and v_20_5 -Mg0

5 of which are Soviet.

ASSOCIATION:

Ural'skiy filial Akademii nauk SSSR, Institut metallurgi: (Ural Branch, AS USSR, Institute of Metallurgy)

SUBMITTED:

January 15, 1957

Card 3/3

31671 S/631/60/000/001/008/014 B117/B147

5.4700

AUTHORS: Ivanovskiy, L. Ye., Ilyushchenko, N. G., Zyazev, V. L.,

Plekhanov, A. F.

TITLE: Oxychlorides of rare earths of lowest valencies

SOURCE: Elektrokhimiya rasplavlennykh solevykh i tverdykh elektrolitov, no. 1, 1960, 55-60

TEXT: The interaction of oxygen and rare earth metals with chloride melts of rare earths was studied. In the first series of experiments, the authors used a misch metal (% by weight: 22.5 La, 53.0 Ce, 4.53 Pr, and 16.3 Nd) obtained by electrolysis, and a chloride mixture (% by weight: 26 La, 53.9 Ce, 4.85 Pr, 11.42 Nd) obtained by chlorination of oxides of rare earths with gaseous chlorine in the presence of carbon. The result was a deposit of oxychlorides of lowest valency: Me₂OCl₂, where Me stands for La, Ce, Pr, and Nd. This mixture is slowly hydrolyzed in water to give hydrates of highest valency. When boiling, decomposition proceeds rather quickly. During heating, the product readily reacts with acids, particularly Card 1/3

31671 S/631/60/000/001/008/014 B117/B147

Oxychlorides of rare earths of lowest ...

nitric acid. It oxidizes easily at 300-400°C forming mixtures of oxides of rare earths at higher temperatures. In another series of experiments, the reaction of oxygen with chlorides of rare earths in an open bath at 580 - 600°C was studied. A graphite vessel was used as electrolyzer and anode, and molybdenum rods were used as cathodes. The electrolyte was a mixture of chlorides of rare earths and potassium chloride (50% MeCl, and KC1). The amount of lowest oxychlorides formed in all experiments depended on the amount of products in the bath obtained by decomposition of salts under the action of oxygen and moisture. Finally, the misch metal in the potassium chloride melt was anodically dissolved at 850°C in an open and a closed bath. The authors always found oxychlorides of lowest valencies with a ratio equal to that of initial substances. Summary: In the case of interaction between oxygen, chloride melts of rare earths, and misch metal mixtures of low-valency oxychlorides of rare earths were obtained. The summational reaction can be written down: $4\text{MeCl}_3 + 30_2 + 8\text{Me} = 6 \text{ Me}_2 \text{OCl}_2$. The formation of oxychlorides on the cathode may be explained by the formation of Me₂OCl₄ soluble in the melt by

Card 2/3

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31671 Oxychlorides of rare earths of lowest ... 8/631/60/000/001/008/014

decomposition of salts. The formation of Me₂OCl₂⁺⁺, whose discharge on the cathode yields Me₂OCl₂, is well possible. At the same time, direct reaction of decomposition products with the metal deposited on the cathode is also possible. Bivalent chlorides of rare earths are formed in the melt due to anodic dissolution of the misch metal. Their reaction with oxygen also yields oxychlorides of the same composition. There are 4 figures, 2 tables, and 5 references: 4 Soviet and 1 non-Soviet.



"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZYAZEV, V.L.; YESIN, O.A.

CIA-RDP86-00513R002065720016-2
CIA-RDP86-00513R002065720016-2

Viscosity and density of the systems V205-CaO and V205-MgO.

Isv.Sib.otd. AN SSSR no.9:3-9 158. (MIRA 11:11)

1. Ural'skiy filial Akademii nauk SSSR. (Vanadium oxides) (Viscosity) (Fusion)

CIA-RDP86-00513R002065720016-2 CIA-RDP86-00513R002065720016-2"

21,567

8/137/61/000/005/005/060 A006/A106

5 4700

Ivanovskiy, L.Ye., Ilyushchenko, N.G., Zyazev, V.L., Plekhanov, A.F.

AUTHORS:

TITLE:

On oxychlorides of rare earths of lower valences

PERIODICAL:

Referativnyy zhurnal. Metallurgiya, no. 5, 1961, 16, abstract 5A94 ("Tr. In-ta elektrokhimii. Ural'skiy fil. AN SSSR", 1960, no.1, 55-60)

An investigation was made of the interaction of mixtures of rare earth chlorides and "mishmetall" in the presence of .02. A mixture of low valence oxychlorides, Me20Cl2, was singled out where the metals were La, Ce, Pr, Nd. Some of their properties were investigated. It is shown that in electrolysis of chloride bathes, where the possibility of a contact of atmospheric O₂ and moisture with the melt was not excluded, Me₂OCl₂²⁺ oxycations are apparently formed ture with the oxidation of salts. The discharge of these oxycations on the as a result of the oxidation of salts. cathode causes the formation of oxychlorides of lower valence, the Me₂OCl₂. The anodic dissolving of mishmetal was investigated. During the anodic dissolution in the melts 2-valent chlorides of rare earths are formed, whose interaction with O2 causes also the formation of oxychlorides of the same composition. [Abstracter's note: Complete translation]

Card 1/1

ZYAZEV, V.L. (Sverdlovsk); TANUTROV, I.N. (Sverdlovsk)

The gas content of anodic copper. Izv. AN SSSR. Otd. tekh. nauk.

Met. i gor. delo no.2:54-58 Mr-Ap '63.

Met. i gor. delo no.2:54-58 Mr-Ap '63.

ZYAZEV, V.L.; TANUTROV, I.N.

Behavior of impurities and hydrogen on the fire refining of copper. TSvet. met. 36 no.8:80-83 Ag !63. (MIRA 16:9) (Copper-Metallurgy) (Gases in metals)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP8

ZYAZEV, V.L.; YESIN, O.A.

Viscosity and density of the systems V_2O_5 — $F_{e_2}O_3$, V_2O_5 — CuO and V_2O_5 — CaO — $F_{e_2}O_3$. Izv. Sib. otd. AN SSSR no.10:13-20 (MIRA 11:12)

1. Ural'skiy filial AN SSSR.
(Systems (Chemistry)) (Viscosity) (Fusion)

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 3, p 24 (USSR) SOV/137-59-3-5058 D

AUTHOR: Zyazev, V. L.

TITLE: Physicochemical Properties of the Simplest Vanadium Slags (Fizikokhimicheskiye svoystva prosteyshikh vanadiyevykh shlakov)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of

Candidate of Technical Sciences, presented to the Ural'skiy polite-

khn. in-t (Ural Polytechnic Institute), Sverdlovsk, 1958

ASSOCIATION: Ural'skiy politekhn. in-t (Ural Polytechnic Institute), Sverdlovsk

Card 1/1

相關的問題

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 CIA-RDP86-00513R002065720016-2" APPROVED FOR RELEASE: Thursday, September 26, 2002

AUTHORS:

Zyazev, V. L., Yesin, O. A.

78-3-6-15/**3**0

TITLE:

Viscosity and Density in the V205-PbO-System

(Vyazkost' i plotnost' sistemy V₂O₅-PbO)

PERIODICAL:

Zhurnal Neorganicheskoy Khimii, 1958, Vol. 3, Nr 6,

pp. 1381-1385 (USSR)

ABSTRACT:

The viscosity and the density of the enamels of the V205-Pb0-

system including the pure oxides of V205-PbO were

determined.

The determinations of density were performed by heating and

cooling the enamel.

The dependence of temperature on the viscosity and density in the V₂O₅ enamels with a PbO content of 28,3-88,9% was

investigated.

The density of the enamels of the V205-PbO-system was investigated at temperatures of 800, 1000, and 1200°C. At 68% PbO a minimum is observed in the density curve and

in alloys with 79,7% a break was found. Probably the

atomic groupings occur in the enamel under formation of the

Card 1/2

following chemical compounds:

Viscosity and Density in the V_2O_5 -PbO-System

78-3-6-15/30

V₂O₅.2РbO, V₂O₅.3РbO, V₂O₅.8РbO.

It was found that in the enamel of the system at 1000° C a relatively high specific conductivity and little viscosity are prevailing. The existence of the above-mentioned chemical compounds was confirmed by the curves of viscosity and the determinations of density of the enamels of the V_2O_5 -PbO-system. There are 3 figures, 2 tables, and 10 references, 7 of which are Soviet.

ASSOCIATION: Institut metallurgii Uralskogo filiala Akademii nauk SSSR

(Institute of Metallurgy, Ural Branch AS USSR)

SUBMITTED: July 29, 1957

AVAIDABLE: Library of Congress

1. Enamels--Viscosity 2. Enamels--Density 3. Viscosity--Temperature

factors 4. Density--Temperature factors

Card 2/2

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
YESIN, O.A.; ZYAZEV, V.L. (Sverdlovsk)

Mlectric conductivity of binary systems composed of vanadium pentoxide with iron oxide and copper oxide and a number of intricate alloys. Izv.AN SSSR. Otd. tekh. nauk no.6:7-11 Je 158.

(MIRA 11:8)

1. Institut metallurgii Ural'skogo filiala AN SSSR. (Vanadium alloys-Electric properties)

15 电相图

Electric conductivity of oxides of vanadium, lead, and copper.

Zhur.neorg.khim. 2 no.9:1998-2002 S '57. (MIRA 10:12)

1. Ural'skiy filial AN SSSR, Institut metallurgii AN SSSR.

(Vanadium oxides--Electric properties)

(Lead oxides--Electric properties)

(Copper oxides--Electric properties)

OVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 CIA-RDP86-00513R002065720016-2"

ZYAZEV, V.L.

57-1-2/30

AUTHORS:

TITLE:

Zyazev, V. L., Yesin, O. A. On the Influence of the Short Range Order on the Character of Conductivity (O vliyanii blizhnego poryadka na

kharakter provodimosti).

PERIODICAL:

Zhurnal Tekhnicheskoy Fiziki, 1958, Vol. 28, Nr 1,

ABSTRACT:

The authors refer to the works of A. F. Toffe (reference 1) and Regel' (reference 1). These stated that for the character of the conductivity the short and not long range order of the conductivity the short and not long range order. pp. 18-22 (USSR) of the conductivity the short and not long range order of the atoms is of great importance. The measurement results of the atoms is of great importance. the electric conductivity of binary alloys of V205 with PbO, CaO and MgO in various compositions and at

various temperatures are given. The measurements were carried out in open resistance furnaces (in the air) with alternating current, looo c frequency, usual resistance bridge (as zero instrument served a cathode oscillograph). As V₂O₃ when being cooled oxidizes to V₂O₅ second heating were more reliable and only these results are

given here. The authors show that the transition from the

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513...

Of Conductivity of the Short Range Order on the Character

semiconductor mechanism to the ion mechanism in the systems begins with unequal MeO concentrations. In alloys of V₂C₅ with CaO it begins at 23,4 % CaO, in the V₂O₅-MgOsystem at 27,7 % MgO and with V205-PbO at 71 %. PbO. In all chemical commound in the respective system. Such a resultant cases the transition-begin corresponds with the transition-begin corresponds with the frespective system. Such a regularity points out the important part of the short range order in the atomic distribution for the realization of the semiconductor electric conductivity in alloys. The character of the polytherms for the electric conductivity shows that in the V₂0₅-Pb0, V₂0₅-Ca0 and V₂0₅-Mg0 alloys the semiconductor mechanism passes over to an ion mechanism with compounds which correspond to the chemical compounds with the least which correspond to the chemical compounds with the regularity determined proves the opinion of Ioffe. There are 4 figures, and 13 references, 6 of which are Slavic.

Card 2/3

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 CIA-RDP86-00513R002065720016-2"

On the Influence of the Short Range Order on the Character

ASSOCIATION: Institute for Metallurgy of the Ural Branch AN USSR, Sverdlovsk (Institut metallurgii Ural skogo filiala AN SSSR, Sverdlovsk).

SUBMITTED: March 26, 1957

AVAILABLE: Library of Congress

ZYAZEV, V.L.; TANUTROV, I.N.

Effect of vacuuming on the composition and properties of cast copper. TSvet. met. 36 no.5:30-34 My 163. (MIRA 16:10)

SOV/24-58-6-2/35

O.A. Yesin and V.L. Zyazev AUTHORS:

TUS NEUS CHANA SA ANDSANDANG CHANANA PARA

Electrical Conductivity of the Binary Vanadium Pentoxide-Iron Oxide and Vanadium Pentoxide-Copper Oxide Systems, TITLE: and of some other Complex Systems (Elektroprovodnost!

dvoynykh sistem pyatiokisi vanadiya s okisyu zheleza 1

okis yu medi i zyada slozhnykh splavov)

PERIODICAL: Izvestiya akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, 1958, Nr 6, pp 7-11 (USSR)

ABSTRACT: The electrical conductivity of several oxide systems was investigated to ascertain the extent to which they constituted semi-conductors in the solid and liquid states. The quasi-binary systems V205 - Fe203 and V205 Cu0 were studied together with three compositions based on the studied together with three compositions based on the ternary system V205 - CaO - Fe203 (see the table on p 10). Two quaternary melts (V205 32.0%, CaO 38%, SiO2 19%, MgO 10%, and V205 18.6%, CaO 23.4%, SiO2 27.2%, MnO 10%) of industrial impositions were also investigated. A carbon element resistance furnace was used for the research carbon element resistance furnace was used for the research, the reaction between the carbon and metallic oxides at

high temperatures being prevented by a porcelain lining Card 1/7

SOV/24-58-6-2/35
Electrical Conductivity of the Binary Vanadium Pentoxide-Iron Oxide and Vanadium Pentoxide-Copper Oxide Systems, and of some other complex systems:

The conductivity measurements were made over temperature ranges covering both liquid and solid states. The melts were held in corundum crucibles. The resistance was determined by means of a bridge fed with a 100 c.p.s. current, using a cathode ray oscillograph to indicate the balance conditions. Platinum wire electrodes were employed for immersion into the oxide mixtures. The accuracy of the measurements was 10 to 15%. The experimental mixtures were heated to the maximum temperature and held at that temperature for 15 to 20 minutes, after which the melt was cooled and reheated. The most reliable conductivity measurements were obtained during the second heating cycle, and only these values are discussed in the paper. Chemical analysis after the final cooling showed that dissociation had occurred to a high degree, thus explaining the vigorous gas evolution observed during melting. The composition containing 15% of Fa203 was a critical one in the V205 - Fe203 systems

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Electrical Conductivity of the Binary Vanadium Pentoxide-Iron Oxide and Vanadium Pentoxide-Copper Oxide Systems, and of some puter complex systems

below this composition vanadium pentoxide dissociated, while above this composition iron oxide decomposed. Decomposition in the V205 - CuO system was confined mainly to the copper oxide. The temperature dependence of the electrical conductivity of the V205 - Re203 system is illustrated in Fig 1, graphs 1,2 and 3 corresponding to Fe203 contents of 15, 19.4 and 30.5% respectively. It can be seen that: (a) the conductivity decreased with temperature over the 550-650°C range, except when the iron oxide content was very high; this negative temperature coefficient is attributed to the saturation of those impurity levels to which solid V205 owes its p-type conductivity; (b) above 650°C the conductivity increased smoothly with temperature, but in some instances a decrease in conductivity was observed in the 800-850°C The reason for this behaviour is not understood: but according to Martinet (Ref 3) and Grunewald (Ref 4) it can be attributed to the admixture mechanism of

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SOV/24-58-6-2/35

Electrical Conductivity of the Binary Vanadium Pentoxide-Iron Oxide and Vanadium Pentoxide-Copper Oxide Systems, and of some other complex systems.

conduction by which Fe203 is characterised. The presence of FeO as a decomposition product was believed to explain why many of the investigated compositions did not display this conductivity decrease; (c) the conductivity increase is accelerated at temperatures of about 900 to The weight losses observed at high temperatures with pure V₂O₅, and with the V₂O₅ - rich melts indicated considerable dissociation of V₂O₅ and Fe₂O₃. The decomposition products V₂O₃ and Fe₀ appeared to influence the 950°C. temperature/conductivity relationships; for most of the alloys the curves for the liquid state are not exponential in character and therefore the activation energies could The conductivity isotherms repronot be determined. duced on Fig 2 indicate an accelerated increase of the electric conductivity at 15% Fe203. Above this composition conductivity due to Fe203plays the predominant part. For the V₂05 - CuO system, the conductivity-temperature relationships of the 10, 20, 30, 40 and 50% GuO alloys

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sov/24-58-6-2/35

Electrical Conductivity of the Binary Vanadium Pentoxide-Iron Oxide and Vanadium Pentoxide-Copper Oxide Systems, and of some water Complex systems

are shown in Fig 3, (graphs 1 to 4 respectively). In this case, the conductivity also decreased with temperature over the 500 to 6250C range, but the decrease was much larger than that observed in the previous system. (The table, p 9, gives the factors by which the electric conductivity of various alloys dropped in this temperature range: for the 30% CuO alloy this factor amounted to 80.) Compositions containing 10 to 35% CuO had a high conductivity which was attributed to an increased transfer of electrons from the copper oxide to those impurity levels which determine the p-type conductivity of solid The decrease in conductivity observed within this V2050 temperature range might have been intensified by the volume changes which, according to Lucas et al. (Ref 1), occur when alloys containing up to 35% CuO are heated to At temperatures higher than 800-850°C the 650-700°C。 conductivity increased with increasing temperature. This effect is attributed to the presence of the dissociation

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SOV/24-58-6-2/35

Electrical Conductivity of the Binary Vanadium Pentoxide-Iron Oxide and Vanadium Pentoxide-Copper Oxide Systems, and of some Ather Complex Systems

products, mainly Cu₂0. The conductivity isotherms of the V₂05 - Cu₀ system reproduced on Fig 4 (graphs 2 to 7) exhibit two sharp maxima at 25 and 60% Cu₀. The first maximum was observed only at 500-600°C. The second maximum, whose magnitude increased with temperature, is probably due to decomposition of Cu₀ which brings about an increased concentration of the current carriers. The conductivity isotherms of the ternary and quaternary systems are shown on Figs 5 and 6 respectively: in these cases, no decrease in the conductivity with rise of temperature was observed. The experimental findings indicated that all compositions of the two studied quasibinary systems behave as semi-conductors both in the

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SOV/24-58-6-2/35

Electrical Conductivity of the Binary Vanadium Pentoxide-Iron Oxide and Vanadium Pentoxide-Copper Oxide Systems, and of some other Complex Systems

solid and in the liquid states.

There are 6 graphs, 3 tables and 13 references, of which 6 are Soviet, 4 English, 2 German and 1 French.

ASSOCIATION: Institut Metallurgii Ural'skogo Filiala AN SSSR (Institute of Metallurgy Ural Branch Ar.S. USSR) SUBMITTED: February 14, 1957

Card 7/7

ZYAZIKOV, B.Kh., mayor zapasa; GRINCHENKO, V.Ye., polkovnik, red.;

BELYAYEV, M.M., podpolkovnik, red.; SUKHCMLINOV, P.M.,

mayor, red.; GOLUBEV, G.O., polkovnik zapasa, red.; FAVLOV,

P.I., polkovnik v otstavke, red.; YABLOKOVA, G.I., red.

[Gold Stars of the Chechen-Inguish A.S.S.R.; sketches on Heroes of the Soviet Union] Zolotye zvezdy Checheno-Ingushetii; ocherki o Geroiakh Sovetskogo Soiusa. Groznyi, Checheno-Ingushekoe knizhnoe izd-vo, 1964. 310 p. (MIRA 18:4)

BITEKHTINA, V.A.; ZYBIN, A.S.; KNYAGINICHEV, N.I.

Developing fisheries on the Ik-Saltaim-Tenis Lake system. Izv. Omsk. otd. Geog. ob-va no.5:131-136 '63. (MIRA 17:5) "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP8

ZYAZIN, G.

Locating the point of contact of a line and an electric wire.

Radio no.6:45 Je '56. (MLRA 9:8)

1. Zaporozhskaya DRTS.
(Blectric lines)

ZYAZIN, I.G.

Significance of work arrangement for patients in a dispensary serving a rural population. Sov.med. 26 no.10:144-145 0 '62. (MIRA 15:12)

l. Iz Vorontsovskoy uchastkovoy bol'nitsy (glavnyy wrach S.M. Yershov) Voronezhskoy oblasti.
(PUBLIC HEALTH, RURAL) (REHABILITATION)

ZYAZIN, I.G. (selo Vorontsovka Voronezhskoy oblasti)

Role of the feldsher-midwife center in lowering the incidence of dysentery. Fel'd, i akush. 24 no.12:23-27 D 59. (MIRA 13:2) (YORONTSOV DISTRICT--DYSENTERY) (PUBLIC HEALTH, RURAL)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2"

ZYAZIN, I.G.

Variable work schedule and preventive work in a district. Sov.zdrav. (MIRA 11:8)

1. Iz Vorontsovskoy rayonnoy bol'nitsy (glavnyy vrach L.V. Yadykina)
Voronezhskoy oblasti.
(MEDICINE, PREVENTIVE
in Russia (Rus))

ZYAZIN, I.G. (g.Bobrow)

Results of four years of dispensary services for the rural population. Sov. zdrav. 21 no.9: 59 162 (MIRA 17:4)

1. Iz bol'nitsy Vorontsovskogo rayona, Voronezhskoy oblasti.

ZYAZIN, I.G. (Bobrov)

Mortality in the Vorontsovskiy District from 1950 to 1958. Sov. zdrav. 21 no.3:43-46 '62. (MIRA 15:3)

1. Iz Vorontsovskoy bol'nitsy Voronszhskoy oblasti.
(VORONEZH PROVINCE---MORTALITY)

ZYAZIN, I.G. (selo Vorontsovka Voronezhskoy oblasti)

Role of intermediate medical personnel in providing dispensary services in rural areas. Feltd. i akush. 23 no.6:46-48 Je 58 (MIRA 11:6)

(MEDICINE, RURAL)

ZYAZINA, O.

Flaz - Vologda (Province)

Raising fiber flax. Kolkh.proizv. 12 No. 3, 1952

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

BLYUMBERG, I.B.; ZYAZINA, T.M.; TEREGULOV, G.I.

New method of determining the sharpness of the photographic image. Zhur.nauch.i prikl.fot.i kin. 7 no.4:268-271 JL-Ag '62. (MIRA 15:8)

1. Leningradskiy institut kinoinzhenerov (LIKI). (Photographic sensitometry)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP86-00518-2 CIA-RDP8

BLYUMBERG, I.B.; ZYAZINA, T.M.; TERGULOV, G.I.

Investigating changes in the quality of the photographic image during printing. Tekh.kino i telev. 4 no.7:10-18 Jl '60. (HIRA 13:7)

1. Leningradskiy institut kinoinzhenerov i TSentral'noyekonstruktorskoye byuro Ministerstva kul'tury SSSR. (Photographyr-Printing) "APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
CIA-RDP86-00513R002065720016-2
CIA-RDP86-00513R002065720016-2
CIA-RDP86-00513R002065720016-2

Rating the quality of the cinematographic image. Usp.nauch.fot. 10:50-57 164. (MIRA 17:10)

GLEZER, V.D.; ZYAZINA, Z.N.; SMOLENSKAYA, L.N.

Changes in the foveal receptor fields in man. Biofizika 7 (MIRA 15:11)

1. Institut fiziologii imeni I.P.Pavlova AN SSSR, Leningrad. (VISION RESEARCH)

ZYBAILO, A. V.

Podgotovka proizvodstva na avtomobil'nom zavode (Preparation of production at an automobile-plant). Moskva, Mashgiz, 1950. 116 p.

SO: Monthly List of Russian Accessions, Vol 6, No. 3, June 1953

SHEVTSOV, Ye.I., inzhener; YATSOVSKIY, S.A., inzhener; ZYBAKOV S.M., inzhener; BABIN, P.N., inzhener.

Overlay welding of basic hearths. Stal.proizv.no.1:109-119 '56. (MLRA 9:9)

1. Kazakhskiy metallurgicheskiy zavod (for Shevtsov, Yatsovskiy).
2. Institut arkhitektury, stroitel'stva i stroitel'nykh materialov
AN KazSSR (for Zubakov, Babin).
(Open-hearth furnaces--Repairing)

ZYBIN, A.G.; POPKOV, L.P.

Protection of electric mine motors. Vop.bezop.v ugol.shakh. (MIRA 18:1)

NOSYREV, V., nauchnyy sotrudnik; YAKUNINA, A.; ZYBIN, B., mladshiy nauchnyy sotrudnik

Poppy pests. Zashch. rast. ot vred. i bol. 10 no.8:54-55 '65. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lekarstvennykh i aromaticheskikh rasteniy (for Nosyrev). 2. Praheval'skaya zonal'naya opytnaya stantsiya Vsesoyuznogo nauchno-issledovatel'-skogo instituta lekarstvennykh i aromaticheskikh rasteniy (for Zyubin).

Air and fire fl w-through connection linking in Angren. Nauch.teudy VNIIPodzemgaza no.10:45-51 '63. (MIRA 17:5)

l. Laboratoriya gazifikatsii burykh uglay "nosayuznaga nauchnoissledovatal'skogo instituta podzemnoy gaz fikatsii uglay.

NUSINOV, G.O., doktor tekhn.nauk; ZYBALOVA, G.P., kard.tekhn.nauk; Prinimali uchastiye: RETINSKAYA, A.N., inzh.; ZVYAGINTSEV, K.N., inzh.; DUSHANOVA, N.N., inzh.; KARNASH, E.M., inzh.

First data on the underground coal gasification in the experimental gas producer of the Angren "Podgemgaz" Gas Producer Plant. Nauch, trudy VNII Podgemgaza no.6:3-10'62. (MIRA 15:11)

l. Laboratoriya gazifikatsii burykh ugley Vsesoyuznogo nauchno-issledovateliskogo instituta podzemnoy gazifikatsii ugley.

(Angren Basin-Coal gasification, Underground)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RUP86-00513R002065720016-2 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RUP86-00513R002065720016-2" 194-66 EJF (1)/FJA(h)

L 2094-66 ETT(1)/EVA(h) ACCESSION NR: AR5008345

S/0275/65/000/002/A010/A010 621.385

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 2A30

AUTHOR: Zybin, G. P.; Tregubov, V. F.

TITLE: Tricde electron gun for shaping an electron beam at lower-than-natural

CITED SOURCE: Izv. Leningr. elektrocekh, in-ta, vyp. 53, 1964, 287-300

TOPIC TAGS: electron gun, electron beam, triode electron gun

TRANSLATION: Operation is considered of an electron gun with its control grid near its cathode under conditions when the grid potential is lower than the natural potential (the latter existed at the place now occupied by the grid). Running the grid below natural potentials is necessary in order to reduce the grid-heating average power. However, this also reduces the beam space-charge parameter and a lens effect occurs of the grid cells. The lens effect may considerably increase the beam diameter. A formula is derived for the relation of the space-

Card 1/2

HERRIE BINGBIHERING KARREN DEN O FOR APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00518R002065720016 L 2094-66 ACCESSION NR: AR5008345 charge parameters in diode and triode guns, as well as a formula for the lens effect. A method of gun design is suggested. Designing a grid-type gun should start with selecting a diode system with a definite current margin. As the lenseffect-caused variation of the beam diameter is impossible to calculate, the designing must be completed by an electrolytic cell simulation. A gun was designed which shapes a 4-mm diameter electron beam with a 10 smp/v 1/2 space charge, at zero potential on the grid with a gain of about 20 and an accelerating voltage up to 20 kv. The basic diode system had a space-charge parameter of 3.6 x 10⁻⁶ amp/v^{3/2}. The estimated gun parameters are in good agreement with the experimental. Bibl. 4. ENGL: 00 SUB CODE: EC

ZYBALOVA, G. P., Cend Tech Sci (diss) -- "Erown coals as a raw material for underground gasification". Moscow, 1960. 18 pp (Acad Sci UBSR, Inst of Mineral Fuels), 230 copies (KL, No 15, 1960, 134)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZYBALOVA, G.P.; ZVYAGINTSEV, K.N.

Effect of certain lignite properties on fire drift movements advancing toward the blow. Podzem.gaz.ugl. no.2:46-51 159.
(MIRA 12:9)

1. Vsesoyuznyy nauchno-issledovatel skiy i proyektnyy institut podzemnoy gazifikatsii ugley.

(Lignite--Testing) (Coal gasification, Underground)

YEREMIN, I.V.; ZYBALOVA, G.P.

Effect of petrographic characteristics of coal on the efficiency of pre-heating in the undergroundgesification process. Podzem. gas. ugl. no. 2:59-64 158. (MIRA 11:7)

1. Institut goryuchikh iskopayenykh im. G.M. Krzhizhanovskogo AN SSSR i Vsesoyuznyy nauchno-issledovatel skiy institut Podsemgaz. (Coal-Testing)

(Coal gasification, Underground)

ZYBALOVA, G.P.

Angren coal for use in underground gasification. Podzem.gaz.ugl. no.2:110-113 '57. (MIRA 10:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut Podzemgaz. (Coal gasification, Underground) (Angren Valley--Goal)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720016-2 LAVROV, N.V., akademik; ZYBALOVI. G.P.

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